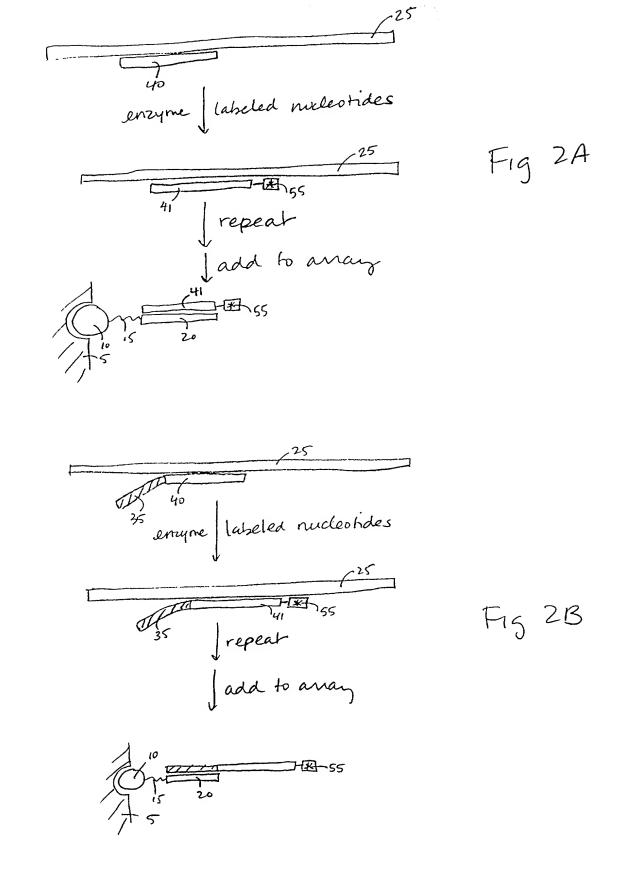
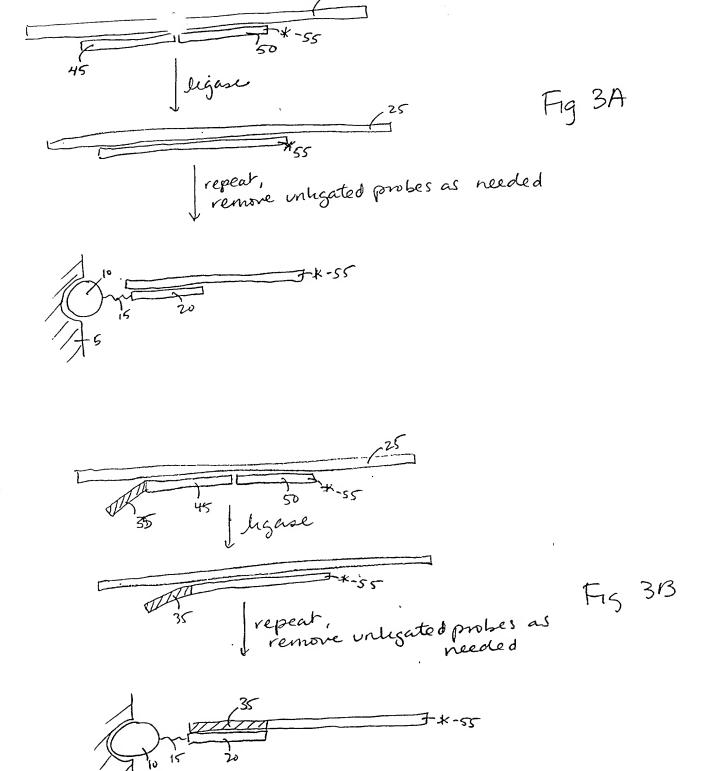
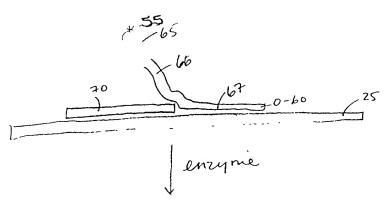


Fig !







repeat, remove uncleaved probes if required

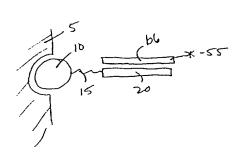


Fig 4

repeat, remove uncleaved probes if necessary The Both Mill Will Both nove uncleaved probes if necessary

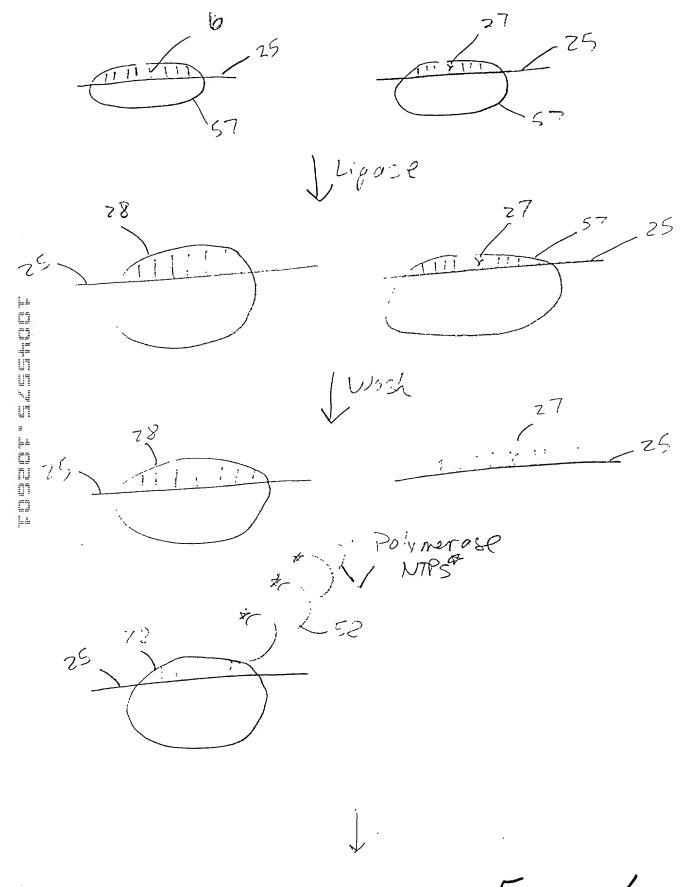


FIGURE 6

| Restriction | Endoructegse

¥ 59

5. 10 21

59

FIGURE 6 Continued

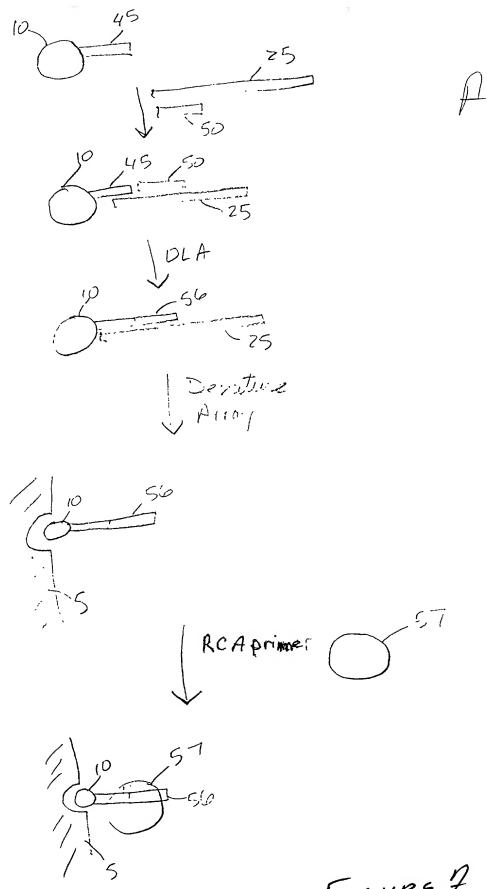


FIGURE 7

Polymerase NTPs

8,3

FIGURE? (Continuil)

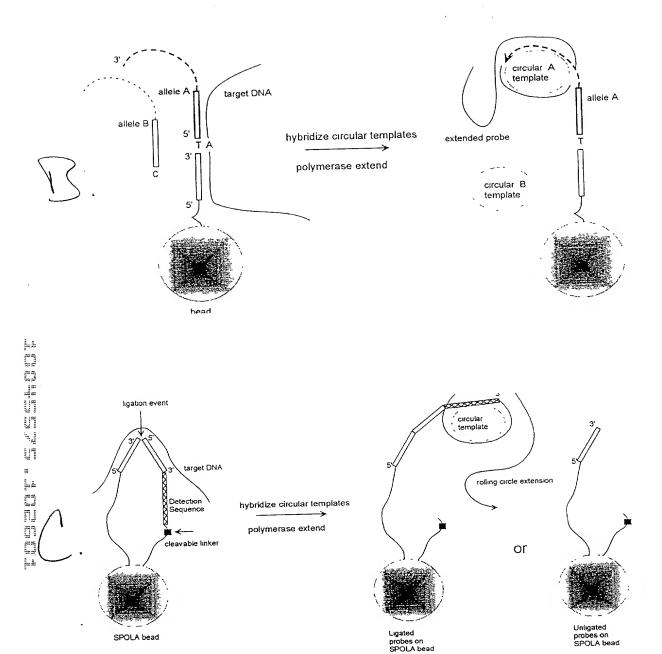


Figure 7 continuel

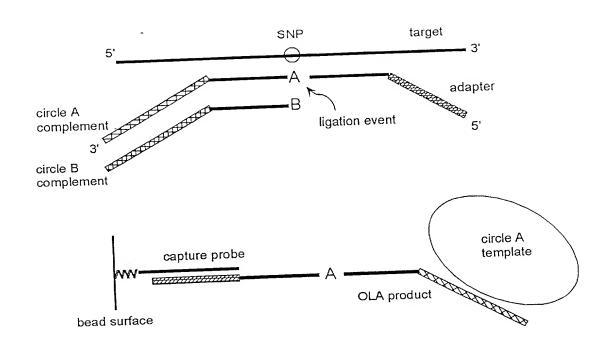


Figure 7 continu

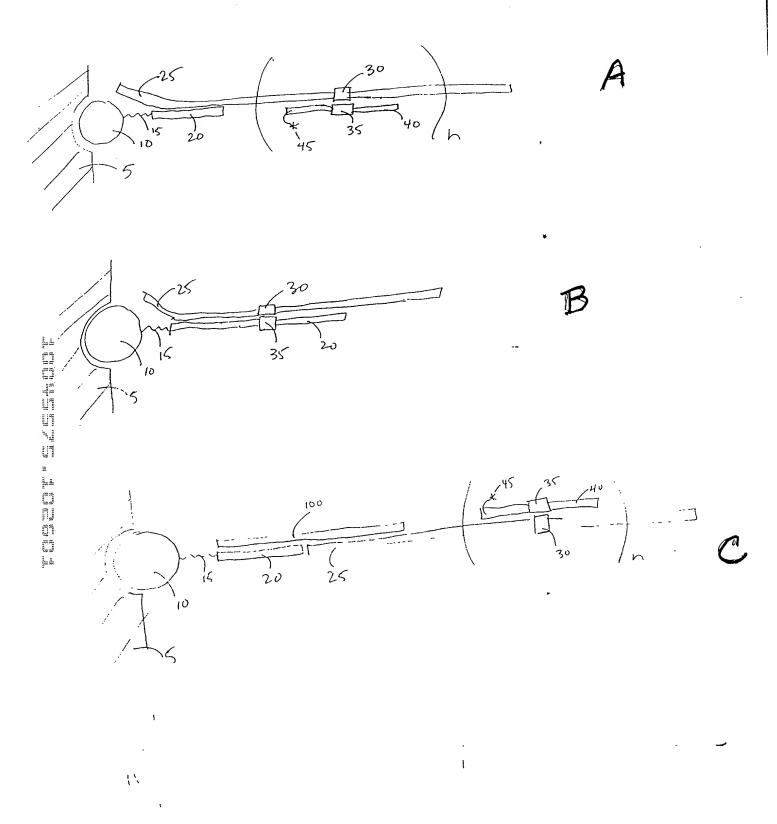
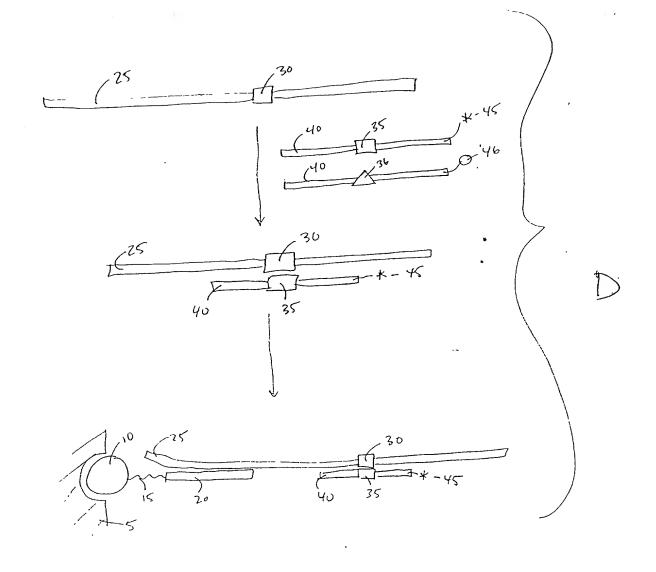


FIGURE 8



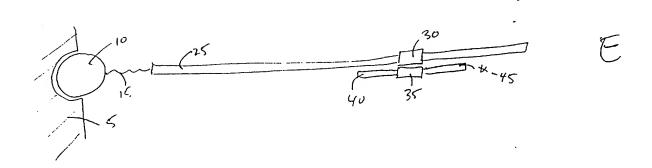


FIGURE 8 (continued)

The fact and the fact the condition of the fact the fact that the fact th 20

FIGURE 9

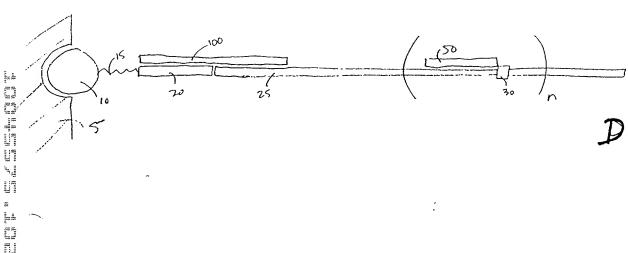


FIGURE 9 (continued)

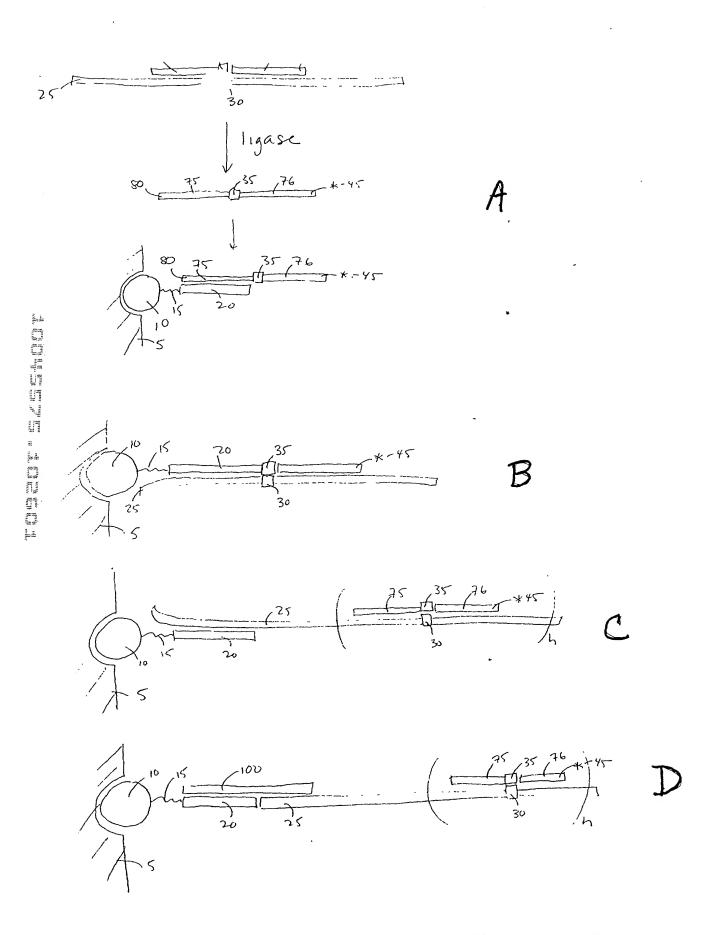


FIGURE 10

by to anay:

FIGURE 10 (continue) 47015 surface FIGURE 11

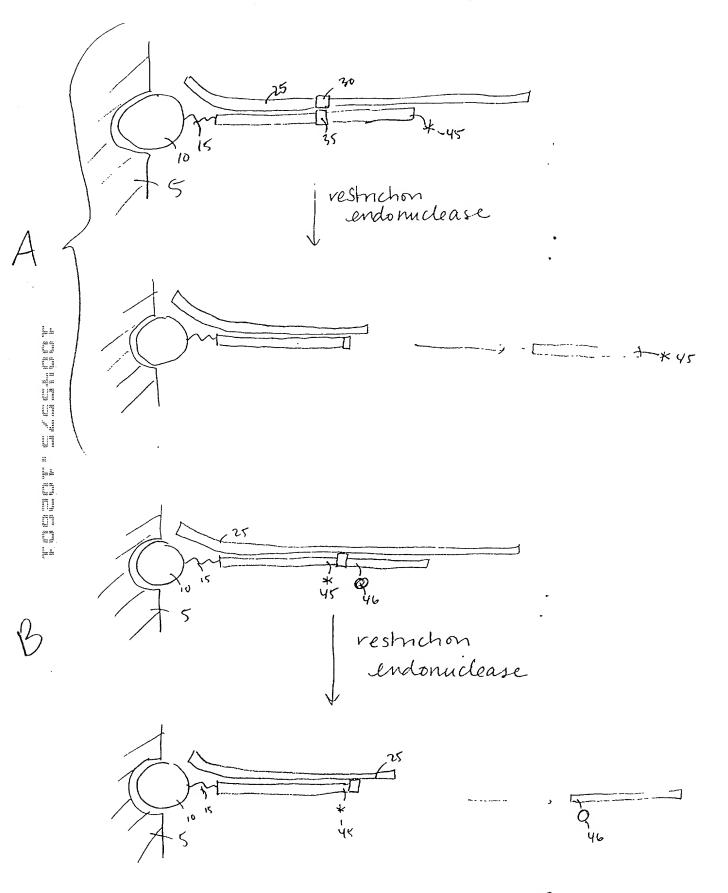


FIGURE 12

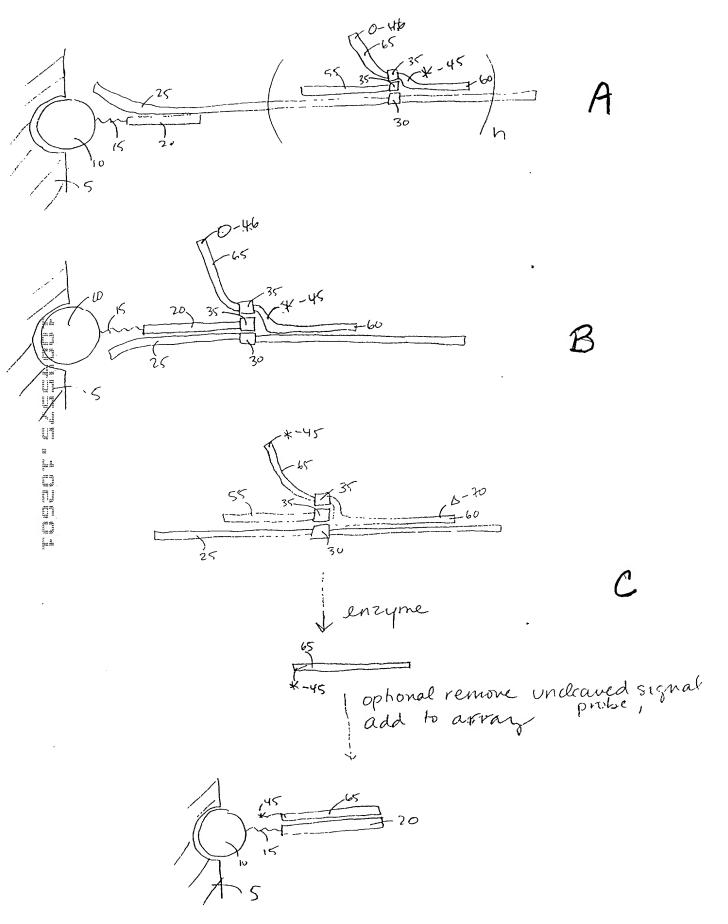


FIGURE B

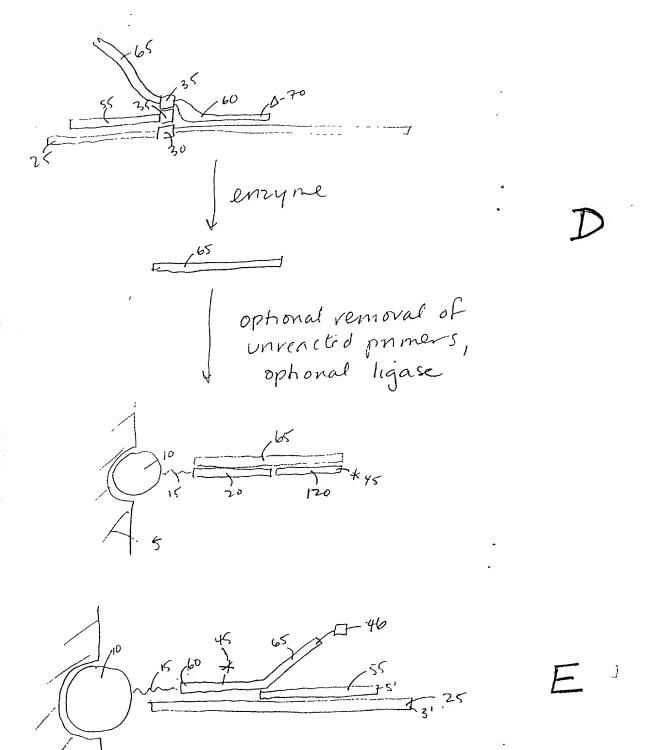


FIGURE 13 (continued)

FIGURE 14

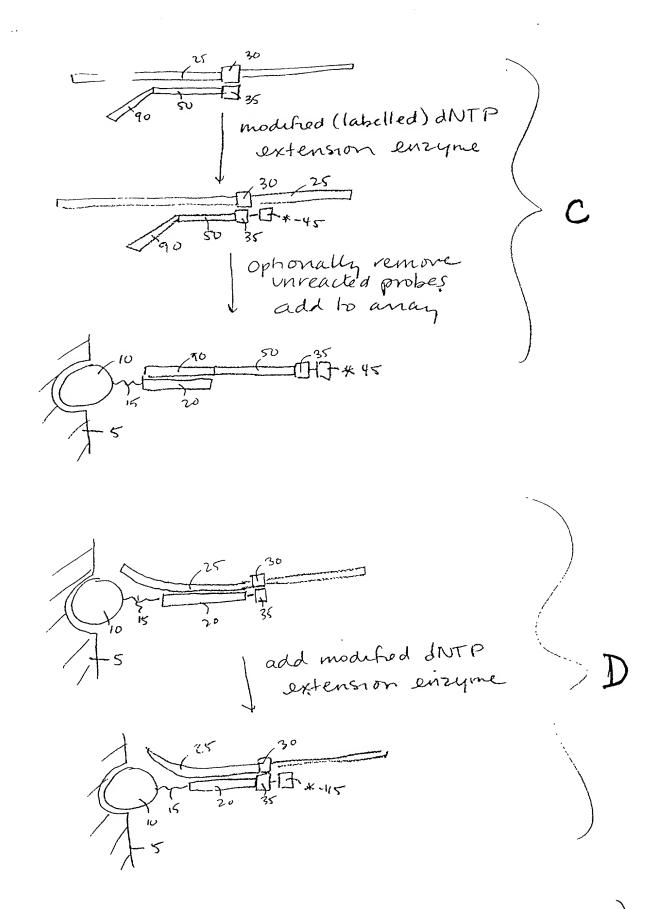


FIGURE 14 (continual)

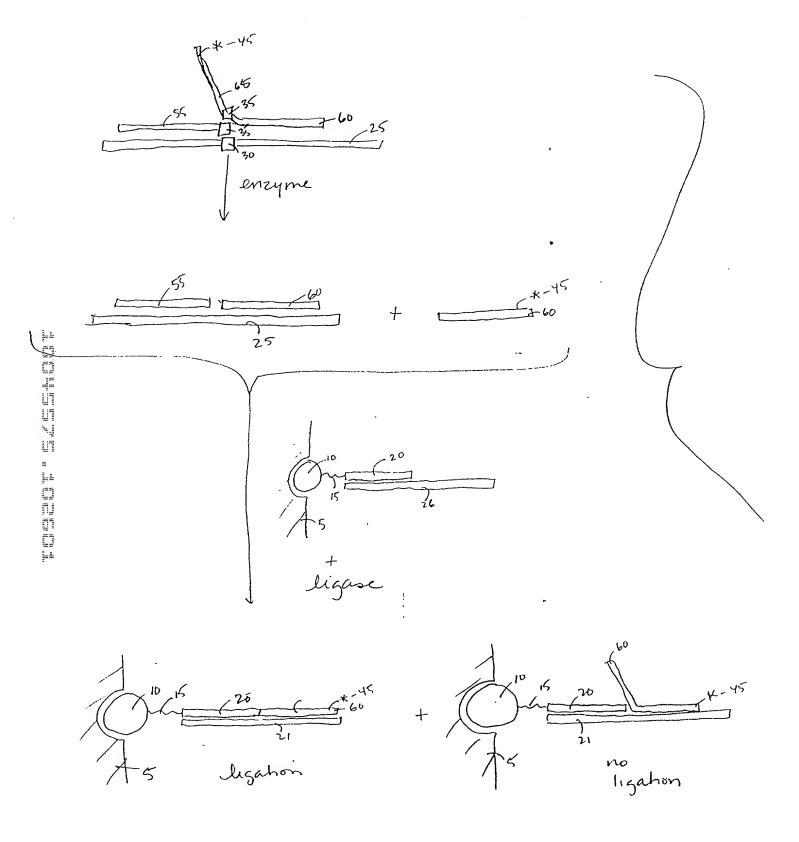
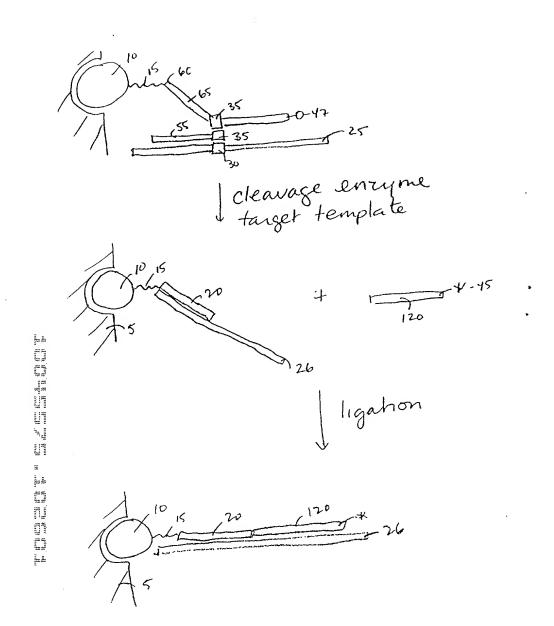


FIGURE 15A



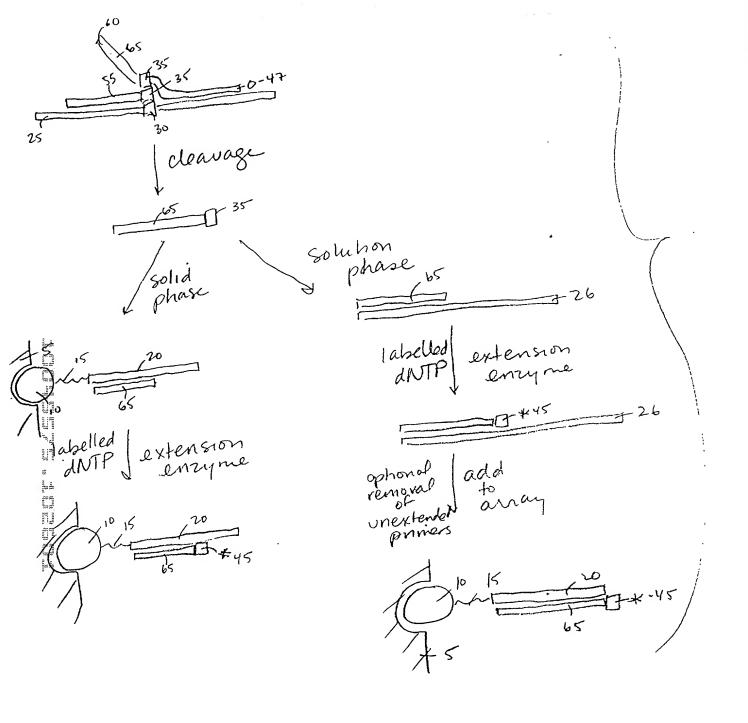
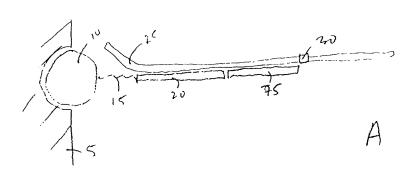
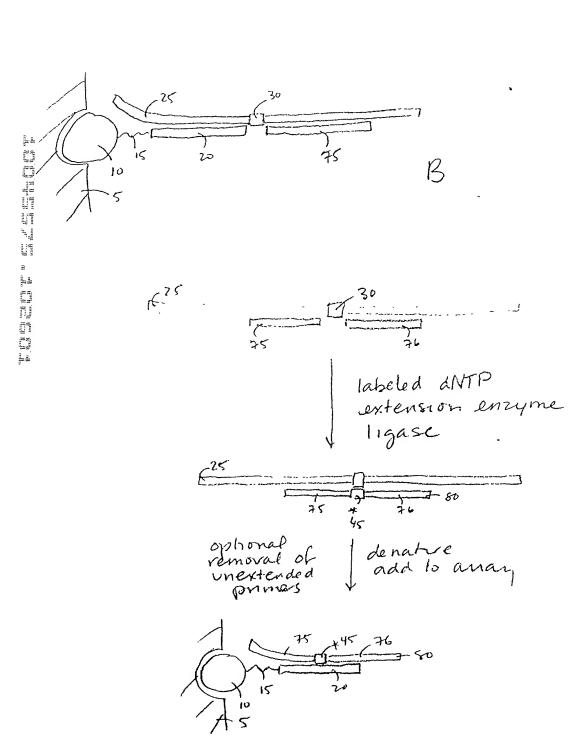


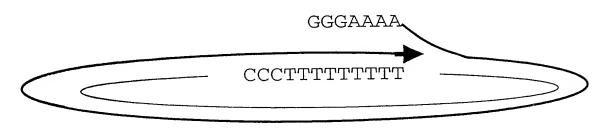
FIGURE 16A

labelled



#### FIGURE 17





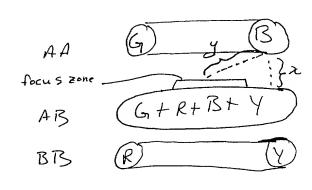
Multi-Lubeled Probe

Grenotype	Signal
A A	6/6
AB	G/R
BB	RIR

Grenotype	Signal
AA	61,13/61,B
AB	G,B/RY
BB	R,Y/R,Y

# Signal Range

 $\begin{array}{ccc}
G & AA \\
\vdots & & \\
G+R & AB \\
R & BB
\end{array}$ 



x = Single label distance y = Multi label distance

Figure 19

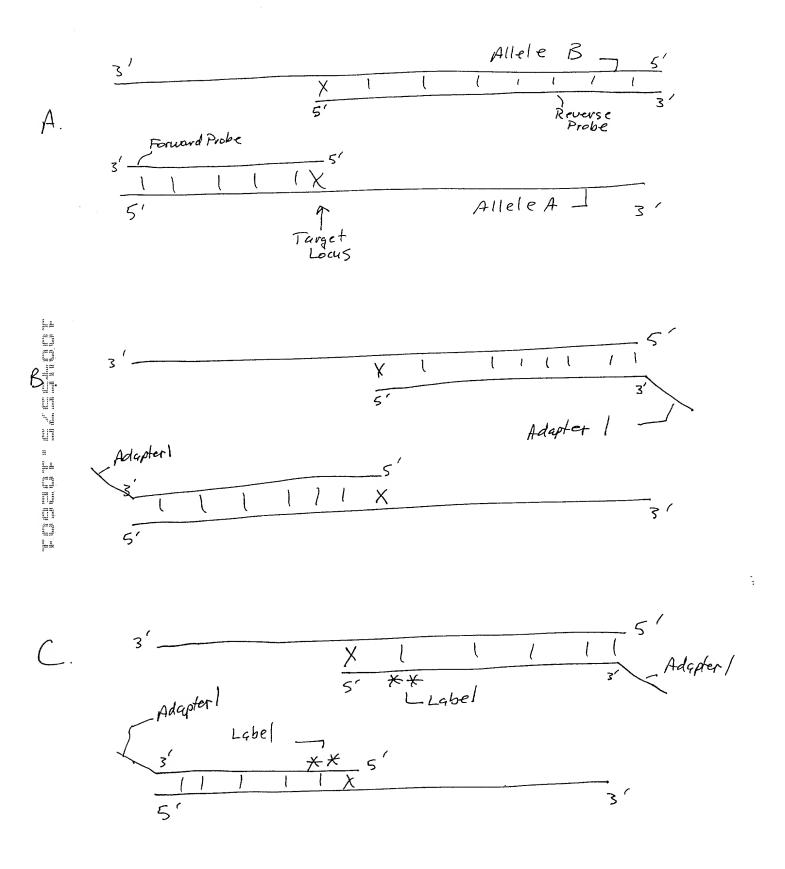
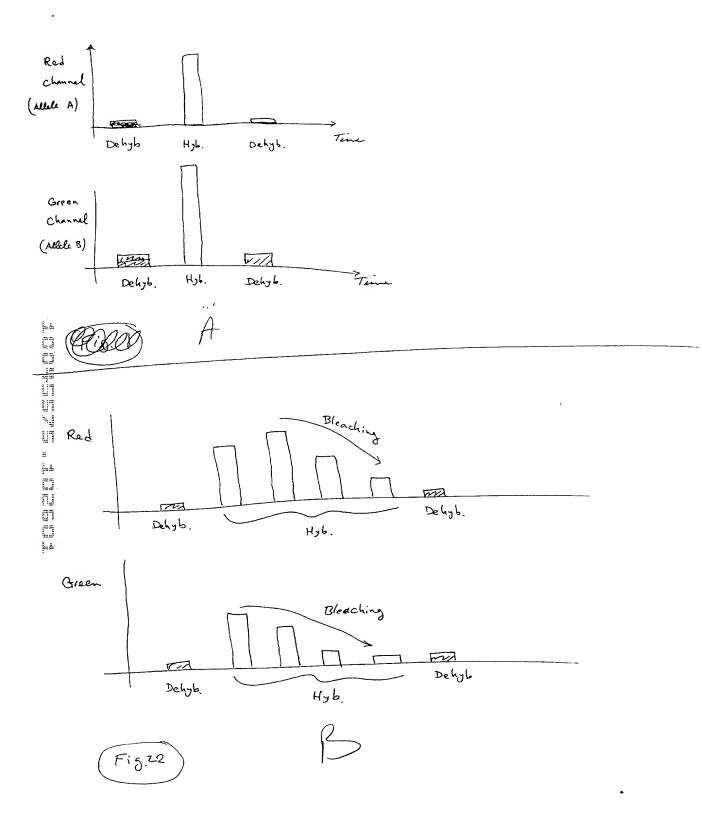


Figure 20

Figure ZO (continued)

Figure 21



=

1

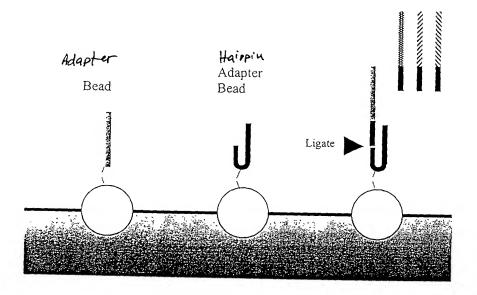
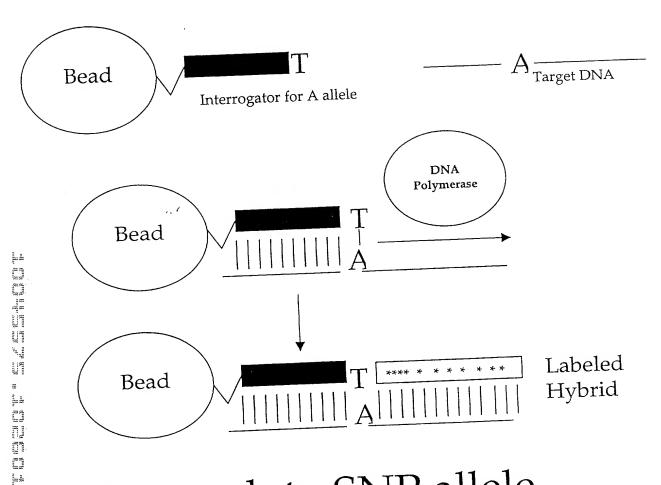
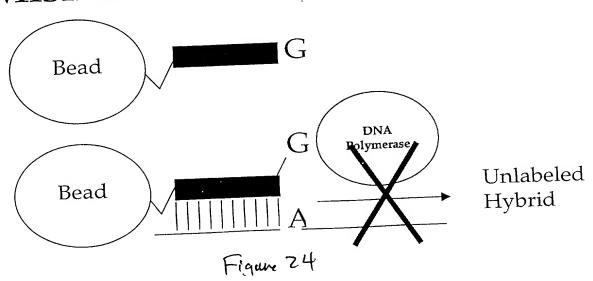


Figure 23

## A. Match to SNP allele



# B. Mismatch to SNP allele



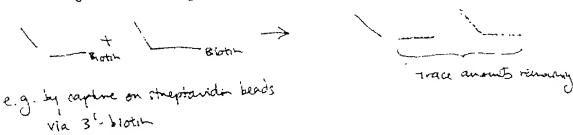
1) Invader reaction

wader reaction

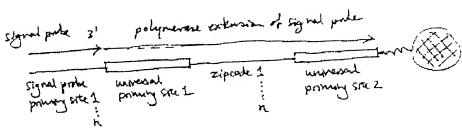
resignal prob

mixture of cleared & uncleared Signal probes.

2) Removal of uncleared signal probes



3) Signal probe primes synthesis of amplicon target strand



- PCR amphibitation
  rewly cyntherized target strands are denotined from target 2 transferred
  to PCR reaction (universal primers, distrib, rag polymersse) for
  multiplex PCR. Invested primers are labelled e.g. with motion.
  - 5) Array hybridization PCR amplicons containing expends are hybridized to array

Figure 25

### Invader-Rolling (Ich

Invader reaction

Avader

Signal probe acts as primer on "rolling circle" template Devit

Forphinal zip-rode

The optimal zip-rode

Solid- phase version:

eastrictmente (optimal)

rolling whele template is tethered to surface e.g. to localized "features" in an array format, or to beards.

localization segure (optimal) hybridization to adjacent probes
or recovered for my liquid phase for hybridization
to a deleteration array. e.g. by errayments clearage

Figure 76